



**EA GROUP**

Environmental Analysis  
and Management

## **Analytical Data Package**

Prepared for:

Weston Solutions  
20 North Wacker St., #1210  
Chicago, IL 60606

**Client Project:**  
Smead Drum SA

**EA Group Workorder:**  
1205-00409



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**EA GROUP**

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# Analytical Results



# EA GROUP

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and Management

Weston Solutions  
20 North Wacker St., #1210  
Chicago, IL 60606  
Lisa Graczyk

Client Project: Smead Drum SA  
EA Group Workorder Number: 120500409  
Received on May 25, 2012

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Industrial hygiene results will not be blank corrected. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

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Reproduction of this report is prohibited except in its entirety . Unless noted, soil, sludge and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit. These results relate only to the items tested.



**EA GROUP**

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## **Laboratory Analytical Report**

### **Weston Solutions**

20 North Wacker St., #1210

Chicago, IL 60606

Attention:  
Lisa Graczyk

### **Client Project:**

Smead Drum SA

### **EA Group Workorder:**

1205-00409

Jeffrey A. Herbert  
Laboratory Manager

June 7, 2012



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Sample Receive Date 5/25/2012

## Sample Listing

<u>EAG</u>		<u>Client</u>	<u>EAG</u>		<u>Client</u>
<u>Sample Identification</u>		<u>Sample Identification</u>	<u>Sample Identification</u>		<u>Sample Identification</u>
120500409	- 001	SA-D-D001	120500409	- 002	SA-C-D002
120500409	- 003	SA-C-D002-D	120500409	- 004	SA-C-D003
120500409	- 005	SA-C-D004	120500409	- 006	SA-C-D005
120500409	- 007	SA-C-D006	120500409	- 008	SA-C-D006-D
120500409	- 009	SA-C-D007	120500409	- 010	SA-B-D008
120500409	- 011	SA-A-D009	120500409	- 012	SA-C-D011



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## **Project Narrative 1205-00409**

All analyses performed by EA Group were done using established laboratory SOPs. Management has reviewed the data for compliance with the laboratory QA/QC plan and data have been found to be compliant with the laboratory protocols unless otherwise noted below. All results listed for this report relate only to the samples submitted on this work order.

The temperature of the sample(s) upon receipt was 7.3°C. Samples were received on wet ice.

### Metals Analyses

The MS/MSD for the Mercury analysis associated with Data Entry Batch 114273 was performed on a sample from a different project, 1205-00351-004, and entered under Data Entry Batch 114236.

### Misc. QC Comments

Percent Moisture is used to report results on a dry weight basis.

When necessary, reporting limits of individual samples may be raised due to high concentration of interfering compounds or target analytes, or quantity of sample available for analysis.

pH method note: If this analysis was performed in the laboratory, it may not meet the "immediate analysis" requirement that applies to most wastewater monitoring samples. In such cases, analysis for pH should be done at the time of sampling.

The results listed in this report relate only to the samples submitted to EA Group per the chain of custody.



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Environmental Analysis  
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## Project Narrative 1205-00409

### Data Flag Table

- B** The method blank contained a standard laboratory contaminant (Methylene Chloride, Acetone, Hexane, Phthalates, etc.) above the standard laboratory method detection limit. If the analyte is present in the sample at a concentration up to ten times the blank level, the result is reported with a “B” indicating method blank contamination. Samples will be reported without a “B” if the analyte concentration in the sample is greater than ten times the blank level.
- E** An analytical result marked with an “E” indicates the result reported is above the high end limit of the calibration curve and should be considered an estimated concentration.
- DIL** Due to matrix interference or high analyte concentration, a dilution was required. The spikes and/or surrogates results could not be quantitated and therefore marked “DIL”.
- J** An analytical result marked with a “J” indicates the result reported was below the standard reporting limit and above the method detection limit. As the observed level approaches the MDL there is an increasing probability of a false positive response.
- MI** Analytical results marked as “MI” indicate that due to inherent matrix interference, the result could not be quantitated.
- #** Results flagged “#” indicate the reported result may be outside allowable permit levels as provided by the client, when applicable.
- NA** A result or field marked as “NA” indicates that it was not applicable for this project.
- Q** A quality control result flagged with a “Q” indicates the percent recovery was outside the acceptable range as determined by the laboratory.

\*\* Positive results for this analyte represent a probable combination of 3-Methylphenol (m-Cresol) and 4-Methylphenol (p-Cresol).



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Environmental Analysis  
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**EAG Workorder:** 1205-00409

**Client Project:** Smead Drum SA

**Client ID:** SA-D-D001

**Date/Time Sampled:** 5/24/2012 / 1058

**Received:** 5/25/2012

**EAG ID:** 1205-00409-1

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting</u>		<u>Units</u>	<u>Prep</u>		<u>Analysis</u>		<u>Analyst</u>
			<u>Limit</u>			<u>Date</u>	<u>Date</u>	<u>Time</u>		
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>1.16</b>	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050		mg/liter	5/30/2012	5/30/2012			CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
SW846 1311: TCLP Extraction		Complete					5/29/2012			CMB
Ignitability: SW846-1030 M		Negative	2.2		mm/second	5/30/2012	5/30/2012			SLD
Corrosivity: SW846-9045C		8.5			pH units	5/30/2012	5/30/2012			SLD

**Client ID:** SA-C-D002

**Date/Time Sampled:** 5/24/2012 / 1104

**Received:** 5/25/2012

**EAG ID:** 1205-00409-2

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting</u>		<u>Units</u>	<u>Prep</u>		<u>Analysis</u>		<u>Analyst</u>
			<u>Limit</u>			<u>Date</u>	<u>Date</u>	<u>Time</u>		
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.281</b>	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050		mg/liter	5/30/2012	5/30/2012			CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10		mg/liter	5/31/2012	6/04/2012			CMB
SW846 1311: TCLP Extraction		Complete					5/29/2012			CMB
Ignitability: SW846-1030 M		Negative	2.2		mm/second	5/30/2012	5/30/2012			SLD
Corrosivity: SW846-9045C		9.2			pH units	5/30/2012	5/30/2012			SLD



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Environmental Analysis  
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EAG Workorder: 1205-00409

Client Project: Smead Drum SA

Client ID: SA-C-D002-D

Date/Time Sampled: 5/24/2012 / 1104

Received: 5/25/2012

EAG ID: 1205-00409-3

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting</u>		<u>Units</u>	<u>Prep</u>		<u>Analysis</u>	
			<u>Limit</u>			<u>Date</u>	<u>Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.299</b>	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050		mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete					5/29/2012		CMB
Ignitability: SW846-1030 M		Negative	2.2		mm/second	5/30/2012	5/30/2012		SLD
Corrosivity: SW846-9045C		9.0			pH units	5/30/2012	5/30/2012		SLD

Client ID: SA-C-D003

Date/Time Sampled: 5/24/2012 / 1112

Received: 5/25/2012

EAG ID: 1205-00409-4

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting</u>		<u>Units</u>	<u>Prep</u>		<u>Analysis</u>	
			<u>Limit</u>			<u>Date</u>	<u>Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>5.24</b>	1.0		mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050		mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10		mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete					5/29/2012		CMB
<b>Flashpoint: ASTM D93</b>		<b>&gt;200</b>			degrees F		5/30/2012		REF
pH:SW846-9041A		9.0			pH units	6/04/2012	6/04/2012		SLD



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EAG Workorder: 1205-00409

Client Project: Smead Drum SA

Client ID: SA-C-D004

Date/Time Sampled: 5/24/2012 / 1118

Received: 5/25/2012

EAG ID: 1205-00409-5

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.402</b>	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
Ignitability: SW846-1030 M		<2.2	2.2	mm/second	5/30/2012	5/30/2012		SLD
Corrosivity: SW846-9045C		8.1		pH units	5/30/2012	5/30/2012		SLD

Client ID: SA-C-D005

Date/Time Sampled: 5/24/2012 / 1123

Received: 5/25/2012

EAG ID: 1205-00409-6

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.195</b>	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
Ignitability: SW846-1030 M		<2.2	2.2	mm/second	5/30/2012	5/30/2012		SLD
Corrosivity: SW846-9045C		8.9		pH units	5/30/2012	5/30/2012		SLD



# EAG GROUP

Environmental Analysis  
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**EAG Workorder:** 1205-00409

**Client Project:** Smead Drum SA

**Client ID:** SA-C-D006

**Date/Time Sampled:** 5/24/2012 / 1131

**Received:** 5/25/2012

**EAG ID:** 1205-00409-7

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Barium, TCLP: SW846-6010B	7440-39-3	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
<b>Flashpoint: ASTM D93</b>		<b>&gt;200</b>		degrees F		5/30/2012		REF
pH:SW846-9041A		7.5		pH units	6/04/2012	6/04/2012		SLD

**Client ID:** SA-C-D006-D

**Date/Time Sampled:** 5/24/2012 / 1131

**Received:** 5/25/2012

**EAG ID:** 1205-00409-8

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Barium, TCLP: SW846-6010B	7440-39-3	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.50	0.50	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
<b>Flashpoint: ASTM D93</b>		<b>&gt;200</b>		degrees F		5/30/2012		REF
pH:SW846-9041A		7.5		pH units	6/04/2012	6/04/2012		SLD



# EAG GROUP

Environmental Analysis  
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EAG Workorder: 1205-00409

Client Project: Smead Drum SA

Client ID: SA-C-D007

Date/Time Sampled: 5/24/2012 / 1137

Received: 5/25/2012

EAG ID: 1205-00409-9

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.893</b>	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
<b>Flashpoint: ASTM D93</b>		<b>&gt;200</b>		degrees F		5/30/2012		REF
pH:SW846-9041A		10.0		pH units	6/04/2012	6/04/2012		SLD

Client ID: SA-B-D008

Date/Time Sampled: 5/24/2012 / 1145

Received: 5/25/2012

EAG ID: 1205-00409-10

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.796</b>	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
Ignitability: SW846-1030 M		<2.2	2.2	mm/second	5/30/2012	5/30/2012		SLD
Corrosivity: SW846-9045C		7.5		pH units	5/30/2012	5/30/2012		SLD



# EAG GROUP

Environmental Analysis  
and Management

EAG Workorder: 1205-00409

Client Project: Smead Drum SA

Client ID: SA-A-D009

Date/Time Sampled: 5/24/2012 / 1149

Received: 5/25/2012

EAG ID: 1205-00409-11

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.163</b>	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
<b>Flashpoint: ASTM D93</b>		<b>&gt;200</b>		degrees F		5/30/2012		REF
pH:SW846-9041A		9.0		pH units	6/04/2012	6/04/2012		SLD

Client ID: SA-C-D011

Date/Time Sampled: 5/24/2012 / 1230

Received: 5/25/2012

EAG ID: 1205-00409-12

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Prep Date</u>	<u>Analysis Date</u>	<u>Time</u>	<u>Analyst</u>
Arsenic, TCLP: SW846-6010B	7440-38-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
<b>Barium, TCLP: SW846-6010B</b>	7440-39-3	<b>0.111</b>	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Cadmium, TCLP: SW846-6010B	7440-43-9	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Chromium, TCLP: SW846-6010B	7440-47-3	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Lead, TCLP: SW846-6010B	7439-92-1	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Mercury, TCLP: SW846-7470A	7439-97-6	<0.0050	0.0050	mg/liter	5/30/2012	5/30/2012		CMB
Selenium, TCLP: SW846-6010B	7782-49-2	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
Silver, TCLP: SW846-6010B	7440-22-4	<0.10	0.10	mg/liter	5/31/2012	6/04/2012		CMB
SW846 1311: TCLP Extraction		Complete				5/29/2012		CMB
Ignitability: SW846-1030 M		Negative	2.2	mm/second	5/30/2012	5/30/2012		SLD
Corrosivity: SW846-9045C		7.6		pH units	5/30/2012	5/30/2012		SLD



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-001  
**Client ID:** SA-D-D001  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1058  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	5/31/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	5/31/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	5/31/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	5/31/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	5/31/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	5/31/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	5/31/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	5/31/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	5/31/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	5/31/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	82.3	(35 - 114)
2-Fluorobiphenyl	80.9	(43 - 116)
p-Terphenyl-d14	112	(33 - 141)
2-Fluorophenol	43.7	(21 - 100)
Phenol-d6	38.4	(10 - 94)
2,4,6-Tribromophenol	80.1	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-001  
**Client ID:** SA-D-D001  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1058  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/01/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/01/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/01/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/01/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/01/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/01/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/01/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/01/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/01/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/01/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	133	(62 - 137)
Toluene-d8	120	(81 - 126)
4-Bromofluorobenzene	117	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-002  
**Client ID:** SA-C-D002  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1104  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	5/31/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	5/31/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	5/31/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	5/31/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	5/31/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	5/31/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	5/31/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	5/31/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	5/31/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	5/31/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	81.5	(35 - 114)
2-Fluorobiphenyl	73.8	(43 - 116)
p-Terphenyl-d14	112	(33 - 141)
2-Fluorophenol	43.0	(21 - 100)
Phenol-d6	35.5	(10 - 94)
2,4,6-Tribromophenol	69.2	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-002  
**Client ID:** SA-C-D002  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1104  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/01/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/01/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/01/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/01/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/01/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/01/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/01/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/01/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/01/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/01/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	130	(62 - 137)
Toluene-d8	118	(81 - 126)
4-Bromofluorobenzene	114	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-003  
**Client ID:** SA-C-D002-D  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1104  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	6/01/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	83.8	(35 - 114)
2-Fluorobiphenyl	81.1	(43 - 116)
p-Terphenyl-d14	119	(33 - 141)
2-Fluorophenol	43.9	(21 - 100)
Phenol-d6	22.6	(10 - 94)
2,4,6-Tribromophenol	69.5	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-003  
**Client ID:** SA-C-D002-D  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1104  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/01/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/01/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/01/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/01/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/01/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/01/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/01/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/01/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/01/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/01/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	135	(62 - 137)
Toluene-d8	117	(81 - 126)
4-Bromofluorobenzene	119	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-004  
**Client ID:** SA-C-D003  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1112  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	6/01/2012
<b>Pyridine</b>	110-86-1	<b>0.053</b>	0.050	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

### Surrogate

Nitrobenzene-d5  
2-Fluorobiphenyl  
p-Terphenyl-d14  
2-Fluorophenol  
Phenol-d6  
2,4,6-Tribromophenol

### Percent Recovery

77.0  
76.6  
103  
40.7  
36.2  
82.0

### Recovery Limits

(35 - 114)  
(43 - 116)  
(33 - 141)  
(21 - 100)  
(10 - 94)  
(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-004  
**Client ID:** SA-C-D003  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1112  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/01/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/01/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/01/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/01/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/01/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/01/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/01/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/01/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/01/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/01/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/31/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	134	(62 - 137)
Toluene-d8	119	(81 - 126)
4-Bromofluorobenzene	114	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-005  
**Client ID:** SA-C-D004  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1118  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	6/01/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	78.9	(35 - 114)
2-Fluorobiphenyl	80.8	(43 - 116)
p-Terphenyl-d14	107	(33 - 141)
2-Fluorophenol	23.6	(21 - 100)
Phenol-d6	MI	(10 - 94)
2,4,6-Tribromophenol	60.4	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-005  
**Client ID:** SA-C-D004  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1118  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/04/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/31/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	131	(62 - 137)
Toluene-d8	119	(81 - 126)
4-Bromofluorobenzene	110	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-006  
**Client ID:** SA-C-D005  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1123  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	5/31/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	5/31/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	5/31/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	5/31/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	5/31/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	5/31/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	5/31/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	5/31/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	5/31/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	5/31/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	82.2	(35 - 114)
2-Fluorobiphenyl	53.3	(43 - 116)
p-Terphenyl-d14	108	(33 - 141)
2-Fluorophenol	42.4	(21 - 100)
Phenol-d6	34.8	(10 - 94)
2,4,6-Tribromophenol	73.8	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-006  
**Client ID:** SA-C-D005  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1123  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/04/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			6/01/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	133	(62 - 137)
Toluene-d8	118	(81 - 126)
4-Bromofluorobenzene	123	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-007  
**Client ID:** SA-C-D006  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1131  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<100	100	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<100	100	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<100	100	mg/liter	6/04/2012
Chloroform	67-66-3	<100	100	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<100	100	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<100	100	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<1000	1000	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<100	100	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<100	100	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<100	100	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/30/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	134	(62 - 137)
Toluene-d8	116	(81 - 126)
4-Bromofluorobenzene	119	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-007  
**Client ID:** SA-C-D006  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1131  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<5.5	5.5	mg/liter	6/06/2012
m & p-Cresol	1319-77-3	<5.5	5.5	mg/liter	6/06/2012
1,4-Dichlorobenzene	106-46-7	<5.5	5.5	mg/liter	6/06/2012
2,4-Dinitrotoluene	121-14-2	<5.5	5.5	mg/liter	6/06/2012
Hexachlorobenzene	118-74-1	<5.5	5.5	mg/liter	6/06/2012
Hexachlorobutadiene	87-68-3	<5.5	5.5	mg/liter	6/06/2012
Hexachloroethane	67-72-1	<5.5	5.5	mg/liter	6/06/2012
Nitrobenzene	98-95-3	<5.5	5.5	mg/liter	6/06/2012
Pentachlorophenol	87-86-5	<28	28	mg/liter	6/06/2012
Pyridine	110-86-1	<5.5	5.5	mg/liter	6/06/2012
2,4,5-Trichlorophenol	95-95-4	<5.5	5.5	mg/liter	6/06/2012
2,4,6-Trichlorophenol	88-06-2	<5.5	5.5	mg/liter	6/06/2012
Extraction: SW846-3510C		Complete			6/01/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

### Surrogate

Nitrobenzene-d5  
2-Fluorobiphenyl  
p-Terphenyl-d14  
2-Fluorophenol  
Phenol-d6  
2,4,6-Tribromophenol

### Percent Recovery

DIL  
DIL  
DIL  
DIL  
DIL  
DIL

### Recovery Limits

(35 - 114)  
(43 - 116)  
(33 - 141)  
(21 - 100)  
(10 - 94)  
(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-008  
**Client ID:** SA-C-D006-D  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1131  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<100	100	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<100	100	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<100	100	mg/liter	6/04/2012
Chloroform	67-66-3	<100	100	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<100	100	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<100	100	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<1000	1000	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<100	100	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<100	100	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<100	100	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/30/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	133	(62 - 137)
Toluene-d8	118	(81 - 126)
4-Bromofluorobenzene	120	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-008  
**Client ID:** SA-C-D006-D  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1131  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<3.5	3.5	mg/liter	6/06/2012
m & p-Cresol	1319-77-3	<3.5	3.5	mg/liter	6/06/2012
1,4-Dichlorobenzene	106-46-7	<3.5	3.5	mg/liter	6/06/2012
2,4-Dinitrotoluene	121-14-2	<3.5	3.5	mg/liter	6/06/2012
Hexachlorobenzene	118-74-1	<3.5	3.5	mg/liter	6/06/2012
Hexachlorobutadiene	87-68-3	<3.5	3.5	mg/liter	6/06/2012
Hexachloroethane	67-72-1	<3.5	3.5	mg/liter	6/06/2012
Nitrobenzene	98-95-3	<3.5	3.5	mg/liter	6/06/2012
Pentachlorophenol	87-86-5	<18	18	mg/liter	6/06/2012
Pyridine	110-86-1	<3.5	3.5	mg/liter	6/06/2012
2,4,5-Trichlorophenol	95-95-4	<3.5	3.5	mg/liter	6/06/2012
2,4,6-Trichlorophenol	88-06-2	<3.5	3.5	mg/liter	6/06/2012
Extraction: SW846-3510C		Complete			6/01/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	80.6	(35 - 114)
2-Fluorobiphenyl	97.9	(43 - 116)
p-Terphenyl-d14	MI	(33 - 141)
2-Fluorophenol	54.4	(21 - 100)
Phenol-d6	24.5	(10 - 94)
2,4,6-Tribromophenol	23.5	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-009  
**Client ID:** SA-C-D007  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1137  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	6/01/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	63.9	(35 - 114)
2-Fluorobiphenyl	73.9	(43 - 116)
p-Terphenyl-d14	116	(33 - 141)
2-Fluorophenol	34.1	(21 - 100)
Phenol-d6	MI	(10 - 94)
2,4,6-Tribromophenol	63.7	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-009  
**Client ID:** SA-C-D007  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1137  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.12	0.12	mg/liter	6/01/2012
Carbon tetrachloride	56-23-5	<0.12	0.12	mg/liter	6/01/2012
Chlorobenzene	108-90-7	<0.12	0.12	mg/liter	6/01/2012
Chloroform	67-66-3	<0.12	0.12	mg/liter	6/01/2012
1,2-Dichloroethane	107-06-2	<0.12	0.12	mg/liter	6/01/2012
1,1-Dichloroethene	75-35-4	<0.12	0.12	mg/liter	6/01/2012
Methyl ethyl ketone	78-93-3	<1.2	1.2	mg/liter	6/01/2012
Tetrachloroethene	127-18-4	<0.12	0.12	mg/liter	6/01/2012
Trichloroethylene	79-01-6	<0.12	0.12	mg/liter	6/01/2012
Vinyl chloride	75-01-4	<0.12	0.12	mg/liter	6/01/2012
ZHE TCLP Extraction:SW846-1311		Complete	0.0		5/31/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	135	(62 - 137)
Toluene-d8	121	(81 - 126)
4-Bromofluorobenzene	114	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-010  
**Client ID:** SA-B-D008  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1145  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.050	0.050	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.050	0.050	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.050	0.050	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.050	0.050	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.050	0.050	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.050	0.050	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.050	0.050	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<0.25	0.25	mg/liter	6/01/2012
Pyridine	110-86-1	<0.050	0.050	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.050	0.050	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.050	0.050	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	65.1	(35 - 114)
2-Fluorobiphenyl	73.2	(43 - 116)
p-Terphenyl-d14	87.0	(33 - 141)
2-Fluorophenol	25.6	(21 - 100)
Phenol-d6	34.6	(10 - 94)
2,4,6-Tribromophenol	88.4	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-010  
**Client ID:** SA-B-D008  
**Client Project:** Smead Drum SA

**Matrix:** Solid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1145  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/04/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/31/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	131	(62 - 137)
Toluene-d8	119	(81 - 126)
4-Bromofluorobenzene	114	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-011  
**Client ID:** SA-A-D009  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1149  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.30	0.30	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.30	0.30	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.30	0.30	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.30	0.30	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.30	0.30	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.30	0.30	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.30	0.30	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.30	0.30	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<1.5	1.5	mg/liter	6/01/2012
Pyridine	110-86-1	<0.30	0.30	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.30	0.30	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.30	0.30	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	65.8	(35 - 114)
2-Fluorobiphenyl	57.7	(43 - 116)
p-Terphenyl-d14	104	(33 - 141)
2-Fluorophenol	21.5	(21 - 100)
Phenol-d6	19.3	(10 - 94)
2,4,6-Tribromophenol	42.0	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-011  
**Client ID:** SA-A-D009  
**Client Project:** Smead Drum SA

**Matrix:** Liquid  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1149  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<1.0	1.0	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<1.0	1.0	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<1.0	1.0	mg/liter	6/04/2012
Chloroform	67-66-3	<1.0	1.0	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<1.0	1.0	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<1.0	1.0	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<10	10	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<1.0	1.0	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<1.0	1.0	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<1.0	1.0	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			5/30/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	135	(62 - 137)
Toluene-d8	116	(81 - 126)
4-Bromofluorobenzene	119	(80 - 128)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-012  
**Client ID:** SA-C-D011  
**Client Project:** Smead Drum SA

**Matrix:** Sludge  
**Analyst:** DFM

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1230  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Semi-volatile Organic TCLP: SW846-8270C					
o-Cresol	95-48-7	<0.15	0.15	mg/liter	6/01/2012
m & p-Cresol	1319-77-3	<0.15	0.15	mg/liter	6/01/2012
1,4-Dichlorobenzene	106-46-7	<0.15	0.15	mg/liter	6/01/2012
2,4-Dinitrotoluene	121-14-2	<0.15	0.15	mg/liter	6/01/2012
Hexachlorobenzene	118-74-1	<0.15	0.15	mg/liter	6/01/2012
Hexachlorobutadiene	87-68-3	<0.15	0.15	mg/liter	6/01/2012
Hexachloroethane	67-72-1	<0.15	0.15	mg/liter	6/01/2012
Nitrobenzene	98-95-3	<0.15	0.15	mg/liter	6/01/2012
Pentachlorophenol	87-86-5	<0.75	0.75	mg/liter	6/01/2012
Pyridine	110-86-1	<0.15	0.15	mg/liter	6/01/2012
2,4,5-Trichlorophenol	95-95-4	<0.15	0.15	mg/liter	6/01/2012
2,4,6-Trichlorophenol	88-06-2	<0.15	0.15	mg/liter	6/01/2012
Extraction: SW846-3510C		Complete			5/31/2012
TCLP Extraction: SW846-1311		Complete			5/29/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
Nitrobenzene-d5	61.5	(35 - 114)
2-Fluorobiphenyl	83.9	(43 - 116)
p-Terphenyl-d14	118	(33 - 141)
2-Fluorophenol	34.0	(21 - 100)
Phenol-d6	MI	(10 - 94)
2,4,6-Tribromophenol	25.6	(10 - 123)



# EA GROUP

Environmental Analysis  
and Management

**EAG Workorder** 1205-00409  
**EAG ID:** 1205-00409-012  
**Client ID:** SA-C-D011  
**Client Project:** Smead Drum SA

**Matrix:** Sludge  
**Analyst:** REC

**Date Sampled:** 05/24/2012  
**Time Sampled:** 1230  
**Date Received:** 05/25/2012

<u>Parameter</u>	<u>CAS #</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Volatile Organic TCLP: SW846-8260A					
Benzene	71-43-2	<0.10	0.10	mg/liter	6/04/2012
Carbon tetrachloride	56-23-5	<0.10	0.10	mg/liter	6/04/2012
Chlorobenzene	108-90-7	<0.10	0.10	mg/liter	6/04/2012
Chloroform	67-66-3	<0.10	0.10	mg/liter	6/04/2012
1,2-Dichloroethane	107-06-2	<0.10	0.10	mg/liter	6/04/2012
1,1-Dichloroethene	75-35-4	<0.10	0.10	mg/liter	6/04/2012
Methyl ethyl ketone	78-93-3	<1.0	1.0	mg/liter	6/04/2012
Tetrachloroethene	127-18-4	<0.10	0.10	mg/liter	6/04/2012
Trichloroethylene	79-01-6	<0.10	0.10	mg/liter	6/04/2012
Vinyl chloride	75-01-4	<0.10	0.10	mg/liter	6/04/2012
ZHE TCLP Extraction:SW846-1311		Complete			6/01/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
1,2-Dichloroethane-d4	130	(62 - 137)
Toluene-d8	117	(81 - 126)
4-Bromofluorobenzene	120	(80 - 128)



**1205-00409**

Listed below are the TCLP regulatory limits. If you have any questions regarding the results or the regulatory limits, please contact Client Services. Source: 40CFR 261.

<b>TCLP Metals:</b>	<b>mg/liter</b>	<b>TCLP Volatiles:</b>	<b>mg/liter</b>
Arsenic	5.0	Benzene	0.5
Barium	100.0	Carbontetrachloride	0.5
Cadmium	1.0	Chlorobenzene	100.0
Chromium	5.0	Chloroform	6.0
Lead	5.0	1,2-Dichloroethane	0.5
Mercury	0.2	1,1-Dichloroethene	0.7
Selenium	1.0	Methyl ethyl ketone	200.0
Silver	5.0	Tetrachloroethene	0.7
		Trichloroethene	0.5
		Vinyl Chloride	0.2
<b>TCLP Semi-volatiles:</b>	<b>mg/liter</b>	<b>TCLP Pesticides:</b>	<b>mg/liter</b>
1,4-Dichlorobenzene	7.5	Chlordane	0.03
2,4-Dinitrotoluene	0.13	Endrin	0.02
Hexachlorobenzene	0.13	Heptachlor	0.008
Hexachlorobutadiene	0.5	Heptachlor Epoxide	0.008
Hexachloroethane	3.0	Lindane	0.4
Nitrobenzene	2.0	Methoxychlor	10.0
Pyridine	5.0	Toxaphene	0.5
o-Cresol	200.0	<b>TCLP Herbicides:</b>	<b>mg/liter</b>
m-Cresol	200.0	2,4-D	10.0
p-Cresol	200.0	2,4,5-TP (Silvex)	1.0
Cresol (total)	200.0		
Pentachlorophenol	100.0		
2,4,5-Trichlorophenol	400.0		
2,4,6-Trichlorophenol	2.0		
<b>Characterization Parameters:</b>	<b>Acceptable limits</b>		
Corrosivity	2-12.5 pH units		
Flashpoint	>140 degrees F		
Ignitability (solid burn rate)	<2.2 mm/second		
Reactive Cyanide*	<250 mg/kg		
Reactive Sulfide*	<500 mg/kg		

\* EA Group uses the industry standard for the analysis of reactivity. However, the EPA has withdrawn guidance concerning this method. Further evaluation may be required to determine whether a waste is 'reactive'. The generator should contact the waste handler or the EPA for further guidance.



## Data Entry Batch Number Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

<u>EAG ID</u>	<u>Client ID</u>	<u>Parameter</u>	<u>Data Entry Batch</u>
001	SA-D-D001	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114352
002	SA-C-D002	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114352
003	SA-C-D002-D	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114352
004	SA-C-D003	Metals TCLP: SW846-6010B/7470A	114273
		pH:SW846-9041A	114267
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114352
005	SA-C-D004	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114353
006	SA-C-D005	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114353



## Data Entry Batch Number Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

<u>EAG ID</u>	<u>Client ID</u>	<u>Parameter</u>	<u>Data Entry Batch</u>
007	SA-C-D006	Metals TCLP: SW846-6010B/7470A	114273
		pH:SW846-9041A	114267
		Semi-volatile Organic TCLP: SW846-8270C	114361
		Volatile Organic TCLP: SW846-8260A	114353
008	SA-C-D006-D	Metals TCLP: SW846-6010B/7470A	114273
		pH:SW846-9041A	114267
		Semi-volatile Organic TCLP: SW846-8270C	114361
		Volatile Organic TCLP: SW846-8260A	114353
009	SA-C-D007	Metals TCLP: SW846-6010B/7470A	114273
		pH:SW846-9041A	114267
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114352
010	SA-B-D008	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114353
011	SA-A-D009	Metals TCLP: SW846-6010B/7470A	114273
		pH:SW846-9041A	114267
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114353
012	SA-C-D011	Corrosivity: SW846-9045C	114164
		Ignitability: SW846-1030 M	114163
		Metals TCLP: SW846-6010B/7470A	114273
		Semi-volatile Organic TCLP: SW846-8270C	114297
		Volatile Organic TCLP: SW846-8260A	114353



# EA GROUP

Environmental Analysis  
and Management

## Method Blank QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** Method Blank

**Matrix:** Solid

**Data Entry Batch:** 114352

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<u>Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Benzene	<0.10	0.10	mg/liter	6/ 1/2012
Carbon tetrachloride	<0.10	0.10	mg/liter	6/ 1/2012
Chlorobenzene	<0.10	0.10	mg/liter	6/ 1/2012
Chloroform	<0.10	0.10	mg/liter	6/ 1/2012
1,2-Dichloroethane	<0.10	0.10	mg/liter	6/ 1/2012
1,1-Dichloroethene	<0.10	0.10	mg/liter	6/ 1/2012
Methyl ethyl ketone	<1.0	1.0	mg/liter	6/ 1/2012
Tetrachloroethene	<0.10	0.10	mg/liter	6/ 1/2012
Trichloroethylene	<0.10	0.10	mg/liter	6/ 1/2012
Vinyl chloride	<0.10	0.10	mg/liter	6/ 1/2012

  

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Control Limits</u>
1,2-Dichloroethane-d4	135.0	(62 - 137)
4-Bromofluorobenzene	122.0	(80 - 128)
Toluene-d8	115.0	(81 - 126)



## Method Blank QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** Method Blank

**Matrix:** Solid

**Data Entry Batch:** 114353

<u>Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Benzene	<0.10	0.10	mg/liter	6/ 4/2012
Carbon tetrachloride	<0.10	0.10	mg/liter	6/ 4/2012
Chlorobenzene	<0.10	0.10	mg/liter	6/ 4/2012
Chloroform	<0.10	0.10	mg/liter	6/ 4/2012
1,2-Dichloroethane	<0.10	0.10	mg/liter	6/ 4/2012
1,1-Dichloroethene	<0.10	0.10	mg/liter	6/ 4/2012
Methyl ethyl ketone	<1.0	1.0	mg/liter	6/ 4/2012
Tetrachloroethene	<0.10	0.10	mg/liter	6/ 4/2012
Trichloroethylene	<0.10	0.10	mg/liter	6/ 4/2012
Vinyl chloride	<0.10	0.10	mg/liter	6/ 4/2012
<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Control Limits</u>		
1,2-Dichloroethane-d4	129.0	(62 - 137)		
4-Bromofluorobenzene	109.0	(80 - 128)		
Toluene-d8	121.0	(81 - 126)		



## Laboratory Control Spike QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** LCS

**Matrix:** Solid

**Data Entry Batch:** 114352

<u>Parameter</u>	<u>Spike Percent Recovery</u>	<u>Control Limits</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	87.0	(61.5 - 123.0)	6/ 1/2012
Benzene	104.0	(77.2 - 131.0)	6/ 1/2012
Chlorobenzene	107.0	(71.8 - 131.0)	6/ 1/2012
Trichloroethylene	89.4	(73.5 - 128.0)	6/ 1/2012
<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Control Limits</u>	
1,2-Dichloroethane-d4	134.0	(62.4 - 137.0)	
4-Bromofluorobenzene	114.0	(79.9 - 128.0)	
Toluene-d8	116.0	(81.0 - 126.0)	



## Laboratory Control Spike QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** LCS

**Matrix:** Solid

**Data Entry Batch:** 114353

<u>Parameter</u>	<u>Spike Percent Recovery</u>	<u>Control Limits</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	86.3	(61.5 - 123.0)	6/ 4/2012
Benzene	108.0	(77.2 - 131.0)	6/ 4/2012
Chlorobenzene	112.0	(71.8 - 131.0)	6/ 4/2012
Trichloroethylene	90.5	(73.5 - 128.0)	6/ 4/2012
<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Control Limits</u>	
1,2-Dichloroethane-d4	134.0	(62.4 - 137.0)	
4-Bromofluorobenzene	108.0	(79.9 - 128.0)	
Toluene-d8	118.0	(81.0 - 126.0)	



## Matrix Spike QC Report

**QC Type:** 1205-00409-001 MS/MSD

**Matrix:** Solid

**Data Entry Batch:** 114352

**Analysis Date** 6/ 1/2012

<u>Parameter</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
1,1-Dichloroethene	81.3 %	81.9 %	(62 - 123)	0.7	(0 - 30)
Benzene	97.2 %	98.7 %	(77 - 131)	1.5	(0 - 26)
Chlorobenzene	102.0 %	102.0 %	(72 - 131)	0.0	(0 - 22)
Trichloroethylene	83.1 %	81.4 %	(74 - 128)	2.1	(0 - 22)
<u>Surrogate</u>	<u>Recovery</u>	<u>Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
1,2-Dichloroethane-d4	133.0 %	130.6 %	(62 - 137)	2.0	(0 - 20)
4-Bromofluorobenzene	116.0 %	115.3 %	(80 - 128)	0.4	(0 - 20)
Toluene-d8	120.0 %	119.8 %	(81 - 126)	0.1	(0 - 20)



## Matrix Spike QC Report

**QC Type:** 1205-00409-010 MS/MSD

**Matrix:** Solid

**Data Entry Batch:** 114353

**Analysis Date** 6/ 4/2012

<u>Parameter</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
1,1-Dichloroethene	85.1 %	84.0 %	(62 - 123)	1.3	(0 - 30)
Benzene	99.2 %	99.0 %	(77 - 131)	0.2	(0 - 26)
Chlorobenzene	103.0 %	102.0 %	(72 - 131)	1.0	(0 - 22)
Trichloroethylene	86.3 %	85.8 %	(74 - 128)	0.6	(0 - 22)
<u>Surrogate</u>	<u>Recovery</u>	<u>Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
1,2-Dichloroethane-d4	131.0 %	128.9 %	(62 - 137)	1.8	(0 - 20)
4-Bromofluorobenzene	117.0 %	119.4 %	(80 - 128)	1.8	(0 - 20)
Toluene-d8	115.0 %	113.9 %	(81 - 126)	1.1	(0 - 20)



# EA GROUP

Environmental Analysis  
and Management

## Method Blank QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** Method Blank

**Matrix:** Solid

**Data Entry Batch:** 114297

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<u>Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
o-Cresol	<0.050	0.050	mg/liter	5/31/2012
m & p-Cresol	<0.050	0.050	mg/liter	5/31/2012
1,4-Dichlorobenzene	<0.050	0.050	mg/liter	5/31/2012
2,4-Dinitrotoluene	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobenzene	<0.050	0.050	mg/liter	5/31/2012
Hexachlorobutadiene	<0.050	0.050	mg/liter	5/31/2012
Hexachloroethane	<0.050	0.050	mg/liter	5/31/2012
Nitrobenzene	<0.050	0.050	mg/liter	5/31/2012
Pentachlorophenol	<0.25	0.25	mg/liter	5/31/2012
Pyridine	<0.050	0.050	mg/liter	5/31/2012
2,4,5-Trichlorophenol	<0.050	0.050	mg/liter	5/31/2012
2,4,6-Trichlorophenol	<0.050	0.050	mg/liter	5/31/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Control Limits</u>
2,4,6-Tribromophenol	73.3	(10 - 123)
2-Fluorobiphenyl	58.2	(43 - 116)
2-Fluorophenol	36.1	(21 - 100)
Nitrobenzene-d5	62.7	(35 - 114)
Phenol-d6	30.1	(10 - 94)
p-Terphenyl-d14	86.7	(33 - 141)



## Method Blank QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** Method Blank

**Matrix:** Liquid

**Data Entry Batch:** 114361

<u>Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
o-Cresol	<0.050	0.050	mg/liter	6/ 6/2012
m & p-Cresol	<0.050	0.050	mg/liter	6/ 6/2012
1,4-Dichlorobenzene	<0.050	0.050	mg/liter	6/ 6/2012
2,4-Dinitrotoluene	<0.050	0.050	mg/liter	6/ 6/2012
Hexachlorobenzene	<0.050	0.050	mg/liter	6/ 6/2012
Hexachlorobutadiene	<0.050	0.050	mg/liter	6/ 6/2012
Hexachloroethane	<0.050	0.050	mg/liter	6/ 6/2012
Nitrobenzene	<0.050	0.050	mg/liter	6/ 6/2012
Pentachlorophenol	<0.25	0.25	mg/liter	6/ 6/2012
Pyridine	<0.050	0.050	mg/liter	6/ 6/2012
2,4,5-Trichlorophenol	<0.050	0.050	mg/liter	6/ 6/2012
2,4,6-Trichlorophenol	<0.050	0.050	mg/liter	6/ 6/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Control Limits</u>
2,4,6-Tribromophenol	95.5	(10 - 123)
2-Fluorobiphenyl	88.1	(43 - 116)
2-Fluorophenol	46.4	(21 - 100)
Nitrobenzene-d5	74.1	(35 - 114)
Phenol-d6	33.6	(10 - 94)
p-Terphenyl-d14	121.0	(33 - 141)



## Laboratory Control Spike QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** LCS

**Matrix:** Solid

**Data Entry Batch:** 114297

<u>Parameter</u>	<u>Spike Percent Recovery</u>	<u>Control Limits</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	84.7	(46.9 - 99.2)	5/31/2012
2,4-Dinitrotoluene	85.9	(39.0 - 139.0)	5/31/2012
Pentachlorophenol	83.1	(52.2 - 110.0)	5/31/2012
	<u>Percent Recovery</u>	<u>Control Limits</u>	
<u>Surrogate</u>			
2,4,6-Tribromophenol	94.4	(10.0 - 123.0)	
2-Fluorobiphenyl	91.6	(43.0 - 116.0)	
2-Fluorophenol	76.7	(21.0 - 100.0)	
Nitrobenzene-d5	91.3	(35.0 - 114.0)	
Phenol-d6	95.5	(10.0 - 94.0)	
p-Terphenyl-d14	113.0	(33.0 - 141.0)	



# EA GROUP

Environmental Analysis  
and Management

## Laboratory Control Spike QC Report

EAG Workorder: 120500409

Client: Weston Solutions

Client Project: Smead Drum SA

QC Type: LCS/LCSD

Matrix: Liquid

Data Entry Batch: 114361

<u>Parameter</u>	<u>Spike Percent Recovery</u>	<u>Spike Percent Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>RPD Control Limits</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	74.3	74.8	(47 - 99)	0.7	(0-20)	6/ 6/2012
2,4-Dinitrotoluene	89.3	92.6	(39 - 139)	3.6	(0-20)	6/ 6/2012
Pentachlorophenol	91.8	87.2	(52 - 110)	5.1	(0-20)	6/ 6/2012

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Percent Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>RPD Control Limits</u>
2,4,6-Tribromophenol	96.1	97.2	(10 - 123)	1.1	(0-20)
2-Fluorobiphenyl	85.0	80.8	(43 - 116)	5.1	(0-20)
2-Fluorophenol	49.7	51.1	(21 - 100)	2.8	(0-20)
Nitrobenzene-d5	82.7	77.1	(35 - 114)	7.0	(0-20)
Phenol-d6	35.6	36.4	(10 - 94)	2.2	(0-20)
p-Terphenyl-d14	117.0	128.0	(33 - 141)	9.0	(0-20)



## Matrix Spike QC Report

**QC Type:** 1205-00409-006 MS/MSD

**Matrix:** Solid

**Data Entry Batch:** 114297

**Analysis Date** 5/31/2012

<u>Parameter</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
1,4-Dichlorobenzene	69.0 %	59.6 %	(47 - 99)	14.6	(0 - 24)
2,4-Dinitrotoluene	76.4 %	72.6 %	(39 - 139)	5.1	(0 - 20)
Pentachlorophenol	59.0 %	47.3 %	(52 - 110)	22.0	(0 - 27)
<u>Surrogate</u>	<u>Recovery</u>	<u>Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
2,4,6-Tribromophenol	78.0 %	67.2 %	(10 - 123)	15.1	(0 - 20)
2-Fluorobiphenyl	85.0 %	65.7 %	(43 - 116)	25.3	(0 - 20)
2-Fluorophenol	43.0 %	41.4 %	(21 - 100)	4.7	(0 - 20)
Nitrobenzene-d5	82.0 %	81.8 %	(35 - 114)	0.0	(0 - 20)
Phenol-d6	36.0 %	33.2 %	(10 - 94)	9.2	(0 - 20)
p-Terphenyl-d14	107.0 %	104.0 %	(33 - 141)	2.8	(0 - 20)



# EA GROUP

Environmental Analysis  
and Management

## Method Blank QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** Method Blank

**Matrix:** Solid

**Data Entry Batch:** 114273

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<u>Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Date Analyzed</u>
Arsenic, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012
Barium, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012
Cadmium, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012
Chromium, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012
Lead, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012
Mercury, TCLP: SW846-7470A	<0.0050	0.0050	mg/liter	5/30/2012
Selenium, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012
Silver, TCLP: SW846-6010B	<0.10	0.10	mg/liter	6/ 4/2012



## Laboratory Control Spike QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** LCS

**Matrix:** Solid

**Data Entry Batch:** 114273

<u>Parameter</u>	<u>Spike Percent Recovery</u>	<u>Control Limits</u>	<u>Date Analyzed</u>
Silver, TCLP: SW846-6010B	95.8	(80.0 - 120.0)	6/ 4/2012
Arsenic, TCLP: SW846-6010B	99.6	(80.0 - 120.0)	6/ 4/2012
Barium, TCLP: SW846-6010B	98.6	(80.0 - 120.0)	6/ 4/2012
Cadmium, TCLP: SW846-6010B	97.7	(80.0 - 120.0)	6/ 4/2012
Chromium, TCLP: SW846-6010B	100.0	(80.0 - 120.0)	6/ 4/2012
Mercury, TCLP: SW846-7470A	97.8	(80.0 - 120.0)	5/30/2012
Lead, TCLP: SW846-6010B	101.0	(80.0 - 120.0)	6/ 4/2012
Selenium, TCLP: SW846-6010B	98.2	(80.0 - 120.0)	6/ 4/2012



## Matrix Spike QC Report

**QC Type:** 1205-00409-001 MS/MSD

**Matrix:** Solid

**Data Entry Batch:** 114273

**Analysis Date** 6/ 4/2012

<u>Parameter</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
Silver, TCLP: SW846-6010B	103.0 %	102.0 %	(75 - 125)	1.0	(0 - 20)
Arsenic, TCLP: SW846-6010B	115.0 %	114.0 %	(75 - 125)	0.9	(0 - 20)
Barium, TCLP: SW846-6010B	105.0 %	109.0 %	(75 - 125)	3.7	(0 - 20)
Cadmium, TCLP: SW846-6010B	105.0 %	104.0 %	(75 - 125)	1.0	(0 - 20)
Chromium, TCLP: SW846-6010B	99.0 %	97.8 %	(75 - 125)	1.2	(0 - 20)
Lead, TCLP: SW846-6010B	92.5 %	92.0 %	(75 - 125)	0.5	(0 - 20)
Selenium, TCLP: SW846-6010B	119.0 %	118.0 %	(75 - 125)	0.8	(0 - 20)



## Matrix Spike QC Report

**QC Type:** 1205-00351-004 MS/MSD

**Matrix:** Solid

**Data Entry Batch:** 114236

**Analysis Date** 5/24/2012

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<u>Parameter</u>	<u>MS Recovery</u>	<u>MSD Recovery</u>	<u>Control Limits</u>	<u>RPD</u>	<u>Control Limits</u>
Mercury, TCLP: SW846-7470A	95.3 %	97.5 %	(80 - 120)	2.3	(0 - 20)



# EAG GROUP

Environmental Analysis  
and Management

## Sample Duplicate QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** 1205-00409-010D

**Matrix:** Solid

**Data Entry Batch:** 114163

**Date Analyzed:** 05/30/2012

---

<u>Parameter</u>	<u>Sample Result</u>	<u>Sample Duplicate Result</u>	<u>RPD</u>	<u>RPD Control Limits</u>
Ignitability: SW846-1030 M	<2.2	<2.2	0.00	(0-20)



# EAG GROUP

Environmental Analysis  
and Management

## Sample Duplicate QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** 1205-00351-004D

**Matrix:** Solid

**Data Entry Batch:** 114164

**Date Analyzed:** 05/30/2012

---

<u>Parameter</u>	<u>Sample Result</u>	<u>Sample Duplicate Result</u>	<u>RPD</u>	<u>RPD Control Limits</u>
Corrosivity: SW846-9045C	10.0	10.0	0.00	(0-20)



# EAG GROUP

Environmental Analysis  
and Management

## Sample Duplicate QC Report

**EAG Workorder:** 120500409

**Client:** Weston Solutions

**Client Project:** Smead Drum SA

**QC Type:** 1205-00409-011D

**Matrix:** Liquid

**Data Entry Batch:** 114267

**Date Analyzed:** 06/04/2012

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<u>Parameter</u>	<u>Sample Result</u>	<u>Sample Duplicate Result</u>	<u>RPD</u>	<u>RPD Control Limits</u>
pH:SW846-9041A	9.0	9.0	0.00	(0-20)



# EA GROUP

Environmental Analysis  
and Management

## Sample Receipt Confirmation

May 25 ,2012

### Weston Solutions

Lisa Graczyk

Client Project: Smead Drum SA

EA Group Project Number: 120500409

Shipped Via: EA Group Courier

Checked By: LAF

		Comment / Action Taken
Were coolers sealed? (tape or custody seals)	Y <input checked="" type="radio"/> N <input checked="" type="radio"/> N/A <input checked="" type="radio"/>	_____
Was a Chain of Custody form included?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Was the Chain of Custody signed and dated?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Was the client & project name identified and legible	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Were sample containers intact?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Were the sample labels intact and legible?	<input checked="" type="radio"/> Y <input type="radio"/> N N/A	_____
Did the samples match the Chain of Custody?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Were the correct sample containers / preservatives used?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Is there sufficient sample volume for the requested analysis?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Did the samples arrive within holding time?	<input checked="" type="radio"/> Y <input type="radio"/> N	_____
Was the pH tested on preserved water samples?	Y <input checked="" type="radio"/> N <input type="radio"/> N/A	_____
Did the pH meet method requirements?	Y <input type="radio"/> N <input checked="" type="radio"/> N/A	_____
Was any preservative added at login?	Y <input checked="" type="radio"/> N <input type="radio"/> N/A	_____
Were air bubbles present in VOA water samples?	Y <input type="radio"/> N	_____
For 8260B / 5035 samples, was an Encore or Terracore provided?	Y <input type="radio"/> N	_____
For above analysis, was a container provided for moisture?	Y <input type="radio"/> N	_____
Type of ice used - <input checked="" type="radio"/> wet <input type="radio"/> ice packs <input type="radio"/> dry ice <input type="radio"/> none		
Were any samples frozen?	Y <input checked="" type="radio"/> N	_____
Temperature of samples <u>7.3</u> °C		

If samples were submitted in multiple coolers, complete section below:

Cooler #	Airbill #	Temp	Cooler Description



7178 INDUSTRIAL PARK BLVD.  
 MENTOR, OHIO 44060-5314  
 (440) 951-3514  
 FAX (440) 951-3774  
 (800) 975-3514  
 www.eagroupohio.com  
 customer.service@eagroupohio.com

# CHAIN OF CUSTODY

PLEASE DO NOT SEPARATE FORMS

EAG WORK ORDER # 409  
 PAGE 1 OF 2

Company Name Western Solutions, Inc.  
 Report Address 20 N Wacker Dr, Suite 1210  
 City Chicago State IL Zip 60606  
 Billing Address SA ME State \_\_\_\_\_ Zip \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Phone 312-424-3339 Fax \_\_\_\_\_  
 Report Attention Lisa Gracezyk  
 Project Name Snead Drum SA  
 P.O. # Quote # \_\_\_\_\_

TURNAROUND   
 RUSH  
 Target Date: \_\_\_\_\_  
 NORMAL

Matrix Key:  
 Air - AR  
 Liquid - LQ  
 Oil - OL  
 Other - Specify  
 Solid/Soil - SL  
 Water - WT  
 Wipe - WP

Grab or Composite (G/C) \_\_\_\_\_  
 # of Containers \_\_\_\_\_

SAMPLE IDENTIFICATION	MATRIX	COLLECTION TIME	COLLECTION DATE	Grab or Composite (G/C)	# of Containers	TCLP VOC (1311, 8260B)	TCLP SVOC (1311, 8270C)	TCLP Metals (1311, 16010C, 7470)	Flashpoint (1010)	PH (9045C)	ANALYSIS REQUESTED	PRESERVATIVE	PRESERVATIVE KEY
SA-D-D001	SL	1058	5/24/12	G	1	X	X	X	X	X			
SA-C-D002	SL	1104			1	X	X	X	X	X			
SA-C-D002-D	SL	1104			1	X	X	X	X	X			
SA-C-D003	LQ	1112			1	X	X	X	X	X			
SA-C-D004	SL	1118			1	X	X	X	X	X			
SA-C-D005	SL	1123			1	X	X	X	X	X			
SA-C-D006	LQ	1131			1	X	X	X	X	X			
SA-C-D006-D	LQ	1131			1	X	X	X	X	X			
SA-C-D007	LQ	1137			1	X	X	X	X	X			
SA-B-D008	SL	1145			1	X	X	X	X	X			

Method of shipment: EAG Client FedEx UPS Other Courier 5/25/12

Relinquished by (sign) [Signature] Date/Time 5/25/12 1220 Received by (sign) [Signature] Date/Time 5/25/12 1212  
 Relinquished by (sign) [Signature] Date/Time 5/25/12 1:31 Received by (sign) [Signature] Date/Time 5/25/12 1330

Additional Comments / Method Protocol: \_\_\_\_\_

VAP  BUSTR  OTHER

Temp in °C 13  
 Received on Ice [Signature]  
 Cooler Sealed [Signature]

SAMPLE REMARKS:  
 CONDITION,  
 ETC. ....



# EAG GROUP

7118 INDUSTRIAL PARK BLVD.  
 MENTOR, OHIO 44060-5314  
 (440) 951-3514  
 FAX (440) 951-3774  
 (800) 875-3514  
 www.eagroupohio.com  
 customer.service@eagroupohio.com

## CHAIN OF CUSTODY

PLEASE DO NOT SEPARATE FORMS

EAG WORK ORDER #

409

PAGE 2 OF 2

Company Name **Western Solutions, Inc.**

Report Address **20 N Wacker Dr, Suite 1210**

City **Chicago** State **IL** ZIP **60606**

Billing Address **SAME** State **IL** ZIP **60606**

City **Chicago** State **IL** ZIP **60606**

Phone **312-424-3339** Fax

Report Attention **Lisa Graczyk**

Project Name **Smead Drum SA**

P.O. # Quote #

**TURNAROUND**

RUSH

Target Date:

NORMAL

Matrix Key:

- Air - AR
- Liquid - LQ
- Oil - OL
- Other - Specify
- Solid/Soil - SL
- Water - WT
- Wipe - WP

SAMPLE IDENTIFICATION

Grab or Composite (G/C)

# of Containers

SAMPLE IDENTIFICATION	MATRIX	COLLECTION TIME	COLLECTION DATE	Grab or Composite (G/C)	# of Containers	TCLP VOC (1311, 8260B)	TCLP SVOC (1311, 8270C)	TCLP Metals (1311, 6010C, 7470)	Flash point (1010)	pH (9045C)
SA-A-D009	LQ	1149	5/24/12	G	1	X	X	X	X	X
SA-C-D011	LQ	1230	5/24/12	G	1	X	X	X	X	X

PRESERVATIVE

<input type="checkbox"/>										
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

ANALYSIS REQUESTED

- PRESERVATIVE KEY
- HYDROCHLORIC ACID - H
  - NITRIC ACID - N
  - SULFURIC ACID - S
  - SODIUM HYDROXIDE - SH
  - OTHER - O
  - UNPRESERVED - U

Temp in °C

Received on ice

Cooler Sealed

SAMPLE REMARKS: CONDITION, ETC. . . .

Method of shipment: EAG Client FedEx UPS Other **Carrier 5/25/12**

Relinquished by (sign) **PEC** Date/Time **5/25/12 12:20** Received by (sign) **[Signature]** Date/Time **5/25/12 12:20**

Relinquished by (sign) **[Signature]** Date/Time **5/25/12 1:13** Received by (sign) **[Signature]** Date/Time **5/25/12 13:20**

Relinquished by (sign) **[Signature]** Date/Time **5/25/12 1:13** Received by (sign) **[Signature]** Date/Time **5/25/12 13:20**

Additional Comments / Method Protocol:

Fax Results  Email Results (pdf)

VAP  BUSTR  OTHER

OTHER